

Patent Abstracts of Japan

PUBLICATION NUMBER : 11176593
PUBLICATION DATE : 02-07-99

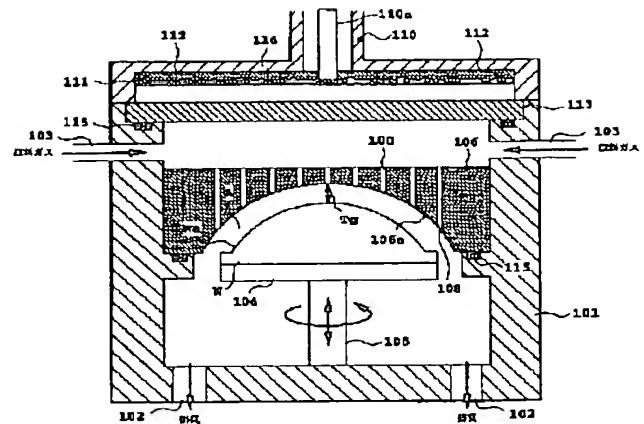
APPLICATION DATE : 12-12-97
APPLICATION NUMBER : 09343085

APPLICANT : CANON INC;

INVENTOR : OMI TADAHIRO;

INT.CL. : H05H 1/46 C23C 16/50 G02B 1/10

TITLE : PLASMA PROCESSING APPARATUS
AND MANUFACTURE OF OPTICAL
PARTS



ABSTRACT : PROBLEM TO BE SOLVED: To form a cover which is superior in in-plane uniformity with less local faults such as pin hole, and has superior covering characteristic by providing a face opposite to a processed body of microwave supply means as a non- flat face whose shape corresponding to a processed face of the processed body.

SOLUTION: When a thin film is formed at a spherical lens, a convex lens is first disposed and fixed so that a processed face is faced upward on a holder 104. Next, a holder 104 is risen by a driving mechanism 105, and a gap T_g between a processed body opposite face 106a and a processed face W_a of a dielectric plate 106 of a non-flat face consisting of a microwave transparent dielectric is set as a given value. Processing gas is introduced into a plasma process space A by a gas introducing port 103 via a gas supply passage 108, and the pressure in a vessel is maintained to a proper pressure by controlling a gas supply quantity or the like. Next, microwaves are supplied to a conductor flat plate antenna 111, gas plasma is generated, and a film with its high density and fine quality can be formed.

COPYRIGHT: (C)1999,JPO